

Hunt Club Road @ Millburn Road & @ Wadsworth Road, Roundabout Improvements,
Supplement to Phase I Engineering Services: Consultant Agreement

Accounts Payable (2) cert.
Transportation (2) cert.

STATE OF ILLINOIS)
)
COUNTY OF LAKE)

COUNTY BOARD, LAKE COUNTY, ILLINOIS
ADJOURNED REGULAR SEPTEMBER, A.D. 2007 SESSION
APRIL 08, A.D., 2008

MADAM CHAIR AND MEMBERS OF THE COUNTY BOARD:

Joint resolution authorizing the Chair of the County Board, the County Clerk and the County Engineer to execute a supplement to the agreement for consulting engineering services between Lake County and Strand Associates, Inc., Joliet, Illinois, for the provision of Phase I engineering services (Preliminary Engineering) for the proposed roundabout improvements to Hunt Club Road (*County Highway 29*) at Millburn Road (*County Highway 14*) and at Wadsworth Road (*County Highway 17*) at a maximum cost of services described of \$54,052.24 and designated as Section 02-00076-13-CH.

WE RECOMMEND adoption of this Resolution.

	Aye	Nay		Aye	Nay
<u>Deanna O'Kelly</u> ✓			<u>[Signature]</u> x		
Chair			Chair		
<u>[Signature]</u> ✓			<u>[Signature]</u> ✓		
Vice-Chair			Vice-Chair		
<u>Ann B. Main</u> ✓			<u>[Signature]</u> ✓		
<u>Terese Douglas</u> ✓			<u>[Signature]</u> x		
			<u>[Signature]</u> ✓		
			<u>Deanna O'Kelly</u> ✓		

Public Works and Transportation Committee

Financial and Administrative Committee

RESOLUTION

WHEREAS, Lake County by prior resolution at its meeting of March 8, 2005, entered into an engineering agreement with Strand Associates, Inc., Joliet, Illinois, for the provision of Phase I engineering services (*Preliminary Engineering*) for the proposed improvements to the intersections of Hunt Club Road (*County Highway 29*) at Millburn Road (*County Highway 14*) and at Wadsworth Road (*County Highway 17*) and designated as Section 02-00076-13-CH.

WHEREAS, this County Board of Lake County, Illinois, by prior resolution at its meeting of March 8, 2005 appropriated \$220,000 of Matching Tax funds for these engineering services; and

WHEREAS, additional Phase I engineering services (*Preliminary Engineering*) are required to expand the scope of services to include additional permitting, agency coordination, and determination of right-of-way needs; and

WHEREAS, these additional engineering services were not foreseen or included in the scope of service of the original engineering agreement between Lake County and Strand Associates, Inc., Joliet, Illinois; and


WHEREAS, Lake County and Strand Associates, Inc., Joliet, Illinois, are desirous of entering into a supplement to said agreement for engineering services, a draft copy of said supplement attached hereto.

NOW, THEREFORE BE IT RESOLVED BY this County Board of Lake County, Illinois, that said agreement between Lake County and Strand Associates, Inc., Joliet, Illinois, be supplemented to include the above-said additional Phase I engineering services (*Preliminary Engineering*) and that the Chair of the County Board, the County Clerk and the County Engineer of Lake County are authorized and directed to execute on behalf of Lake County, a supplement to said agreement for consultant engineering services between Lake County and Strand Associates, Inc., Joliet, Illinois. The County

Engineer shall transmit in writing the final supplement to the agreement to be executed by the Chair of the Lake County Board and the County Clerk.

BE IT FURTHER RESOLVED that copies of this supplemented agreement, when executed in its final form be submitted to the Illinois Department of Transportation for their approval and final processing.

Dated at Waukegan, Illinois
this 08 day of April 2008

Local Agency Lake County Division of Transportation	LOCAL AGENCY	 Illinois Department of Transportation Preliminary Engineering Services Agreement For Federal Participation STA Funding	CONSULTANT	Consultant Strand Associates, inc.
County Lake				Address 1170 South Houbolt Road
Section 02-00076-13-CH				City Joliet
Project No. CMM-8003 (472)				State Illinois
Job No. D-91-114-05				Zip Code 60431
Contact Name/Phone/E-mail Address Rich McMorris 847-362-3950 RMcmorris@co.lake.il.us				Contact Name/Phone/E-mail Address Darcie Gabrisko, P.E. darcie.gabrisko@strand.com

THIS AGREEMENT is made and entered into this _____ day of _____, _____ between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the PROJECT. Federal-aid funds allotted to the LA by the state of Illinois under the general supervision of the Illinois Department of Transportation (STATE) will be used entirely or in part to finance engineering services as described under AGREEMENT PROVISIONS.

Project Description

Name Hunt Club Road Route FAU 2661 Length 3,860 Structure No. N/A

Termini Millburn Road to Wadsworth Road

Description Phase II study for the design of two new roundabouts along Hunt Club Road at the intersections with Millburn Road and Wadsworth Road. The roundabouts will replace the existing "T" intersections at these locations. The segment of roadway between Millburn Road and Wadsworth Road will be widened for bicycles and overlaid.

Agreement Provisions

I. THE ENGINEER AGREES,

- To perform or be responsible for the performance, in accordance with STATE approved design standards and policies, of engineering services for the LA for the proposed improvement herein described.
- To attend any and all meetings and visit the site of the proposed improvement at any reasonable time when requested by representatives of the LA or STATE.
- To complete the services herein described within 426 calendar days from the date of the Notice to Proceed from the LA, excluding from consideration periods of delay caused by circumstances beyond the control of the ENGINEER.
A project schedule is included titled EXHIBIT C.
- The classifications of the employees used in ~~the work~~ **these services** should be consistent with the employee classifications and estimated man-hours shown in EXHIBIT A. If higher-salaried personnel of the firm, including the Principal Engineer, perform services that are indicated in Exhibit A to be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the payroll rate for the work performed.
- That the ENGINEER is qualified technically and is entirely conversant with the design standards and policies applicable for the PROJECT; and that the ENGINEER has sufficient properly trained, organized and experienced personnel to perform the services enumerated herein.
- That the ENGINEER shall be responsible for the accuracy of ~~the work~~ **these services** and shall promptly make necessary revisions or corrections resulting from the ENGINEER's errors, omissions or negligent acts without additional compensation. Acceptance of ~~work services~~ **by the STATE** will not relieve the ENGINEER of the responsibility to make subsequent correction of any such errors or omissions or for clarification of any ambiguities.
- That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by the ENGINEER and will affix the ENGINEER's professional seal when such seal is required by law. Plans for structures to be built as a part of the improvement will be prepared under the supervision of a registered structural engineer and will affix structural engineer seal when such seal is required by law. It will be the ENGINEER's responsibility to affix the proper seal as required by the Bureau of Local Roads and Streets manual published by the STATE.
- That the ENGINEER will comply with applicable federal statutes, state of Illinois statutes, and local laws or ordinances of the LA.

DRAFT

9. The undersigned certifies neither the ENGINEER nor I have:
- employed or retained for commission, percentage, brokerage, contingent fee or other considerations, any firm or person (other than a bona fide employee working solely for me or the above ENGINEER) to solicit or secure this AGREEMENT,
 - agreed, as an express or implied condition for obtaining this AGREEMENT, to employ or retain the services of any firm or person in connection with carrying out the AGREEMENT or
 - paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for me or the above ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
 - are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
 - have not within a three-year period preceding the AGREEMENT been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property,
 - are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (e) and
 - have not within a three-year period preceding this AGREEMENT had one or more public transactions (Federal, State or local) terminated for cause or default.
10. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LA.
11. To submit all invoices to the LA within one year of the completion of the work called for in this AGREEMENT or any subsequent Amendment or Supplement.
12. To submit BLR 05613, Engineering Payment Report, to the STATE upon completion of the project.
13. Scope of Services to be provided by the ENGINEER: **(Scope Clarification is provided in EXHIBIT B)**
- ☒ Make such detailed surveys as are necessary for the planning and design of the PROJECT.
 - ☐ Make stream and flood plain hydraulic surveys and gather both existing bridge upstream and downstream high water data and flood flow histories.
 - ☐ Prepare applications for U.S. Army Corps of Engineers Permit, Illinois Department of Natural Resources Office of Water Resources Permit and Illinois Environmental Protection Agency Section 404 Water Quality Certification.
 - ☐ Design and/or approve cofferdams and superstructure shop drawings.
 - ☐ Prepare Bridge Condition Report and Preliminary Bridge Design and Hydraulic Report, (including economic analysis of bridge or culvert types and high water effects on roadway overflows and bridge approaches).
 - ☒ Prepare the necessary environmental and planning documents including the ~~Project Development Report, Environmental Class of Action Determination or Environmental Assessment, State Clearinghouse, and Substate Clearinghouse and all necessary environmental clearances.~~
 - ☐ Make such soil surveys or subsurface investigations including borings and soil profiles as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations to be made in accordance with the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Administrative Policies, Federal-Aid Procedures for Local Highway Improvements or any other applicable requirements of the STATE.
 - ☐ Analyze and evaluate the soil surveys and structure borings to determine the roadway structural design and bridge foundation.
 - ☒ Prepare preliminary roadway and drainage structure plans and meet with representatives of the LA and STATE at the site of the improvement for review of plans prior to the establishment of final vertical and horizontal alignment, location and size of drainage structures, and compliance with applicable design requirements and policies.
 - ☐ Make or cause to be made such traffic studies and counts and special intersection studies as may be required to furnish sufficient data for the design of the proposed improvement.
 - ☒ Complete the general and detailed plans, special provisions and estimate of cost. Contract plans shall be prepared in accordance with the guidelines contained in the Bureau of Local Roads and Streets manual. The special provisions and detailed estimate of cost shall be furnished in quadruplicate.
 - ☐ Furnish the LA with survey and drafts in quadruplicate all necessary right-of-way dedications, construction easements and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.

II. THE LA AGREES,

1. To furnish the ENGINEER all presently available survey data and information
2. To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMENT, on the basis of the following compensation formulas: **Total shall not exceed \$266,302.23 as clarified in EXHIBIT A.**

Cost Plus Fixed Fee

- ☒ CPFF = $14.5\%[DL + R(DL) + OH(DL) + IHDC]$
☐ CPFF = $14.5\%[DL + R(DL) + 1.4(DL) + IHDC]$, or
☐ CPFF = $14.5\%[(2.3 + R)DL + IHDC]$

Where: DL = Direct Labor
IHDC = In House Direct Costs
OH = Consultant Firm's Actual Overhead Factor
R = Complexity Factor

Specific Rate

☐ (Pay per element)

Lump Sum

☐ _____

3. To pay the ENGINEER using one of the following methods as required by 49 CFR part 26 and 605 ILCS 5/5-409:

☒ With Retainage

- a) **For the first 50% of completed work services**, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments for the work services performed shall be due and payable to the ENGINEER, such payments to be equal to 90% of the value of the partially completed work services minus all previous partial payments made to the ENGINEER.
- b) **After 50% of the work services are completed**, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments covering work services performed shall be due and payable to the ENGINEER, such payments to be equal to 95% of the value of the partially completed work services minus all previous partial payments made to the ENGINEER.
- c) **Final Payment** – Upon approval of the work services by the LA but not later than 60 days after the work services are completed and reports have been made and accepted by the LA and the STATE, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

☐ Without Retainage

- a) **For progressive payments** – Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to the value of the partially completed work minus all previous partial payments made to the ENGINEER.
 - b) **Final Payment** – Upon approval of the work by the LA but not later than 60 days after the work is completed and reports have been made and accepted by the LA and STATE, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.
4. The recipient shall not discriminate on the basis on the basis of race, color, national origin or sex in the award and performance of any DOT-assisted contract or in the administration of its DBE program or the requirements of 49 CFR part 26. The recipient shall take all necessary and reasonable steps under 49 CFR part 26 to ensure nondiscrimination in the award and administration of DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as violation of this agreement. Upon notification to the recipient of its failure to carry out its approved program, the Department may impose sanctions as provided for under part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31U.S.C. 3801 et seq.).

III. IT IS MUTALLY AGREED,

1. That no **work services** shall be commenced by the ENGINEER prior to issuance by the LA of a written Notice to Proceed.
2. That tracings, plans, specifications, estimates, maps and other documents prepared by the ENGINEER in accordance with this AGREEMENT shall be delivered to and become the property of the LA and that basic survey notes, sketches, charts and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request, to the LA or to the STATE, without restriction or limitation as to their use.

3. That all reports, plans, estimates and special provisions furnished by the ENGINEER shall be in accordance with the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Administrative Policies, Federal-Aid Procedures for Local Highway Improvements or any other applicable requirements of the STATE, it being understood that all such furnished documents shall be approved by the LA and the STATE before final acceptance. During the performance of the engineering services herein provided for, the ENGINEER shall be responsible for any loss or damage to the documents herein enumerated while they are in the ENGINEER's possession and any such loss or damage shall be restored at the ENGINEER's expense.
4. That none of the services to be furnished by the ENGINEER shall be sublet, assigned or transferred to any other party or parties without written consent of the LA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall not be construed to relieve the ENGINEER of any responsibility for the fulfillment of this agreement.
5. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amounts, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the Auditor General and the STATE; and to provide full access to all relevant materials. Failure to maintain the books, records and supporting documents required by this section shall establish a presumption in favor of the STATE for the recovery of any funds paid by the STATE under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.
6. The payment by the LA in accordance with numbered paragraph 3 of Section II will be considered payment in full for all services rendered in accordance with this AGREEMENT whether or not they be actually enumerated in this AGREEMENT.
7. That the ENGINEER shall be responsible for any and all damages to property or persons arising out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work services and shall indemnify and save harmless the LA, the STATE, and their officers, agents and employees from all suits, claims, actions or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.
8. This AGREEMENT may be terminated by the LA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LA all drawings, plats, surveys, reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such material becomes the property of the LA. The LA will be responsible for reimbursement of all eligible expenses to date of the written notice of termination.
9. This certification is required by the Drug Free Workplace Act (30ILCS 580). The Drug Free Workplace Act requires that no grantee or contractor shall receive a grant or be considered for the purpose of being awarded a contract for the procurement of any property or service from the State unless that grantee or contractor will provide a drug free workplace. False certification or violation of the certification may result in sanctions including, but not limited to, suspension of contract or grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the State for at least one (1) year but no more than five (5) years.

For the purpose of this certification, "grantee" or "contractor" means a corporation, partnership or other entity with twenty-five (25) or more employees at the time of issuing the grant, or a department, division or other unit thereof, directly responsible for the specific performance under a contract or grant of \$5,000 or more from the State, as defined in the Act.

The contractor/grantee certifies and agrees that it will provide a drug free workplace by:

- a. Publishing a statement:
 - (1) Notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance, including cannabis, is prohibited in the grantee's or contractor's workplace.
 - (2) Specifying the actions that will be taken against employees for violations of such prohibition.
 - (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
 - (a) abide by the terms of the statement; and
 - (b) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.
- b. Establishing a drug free awareness program to inform employees about:
 - (1) The dangers of drug abuse in the workplace;
 - (2) The grantee's or contractor's policy of maintaining a drug free workplace;
 - (3) Any available drug counseling, rehabilitation and employee assistance program; and
 - (4) The penalties that may be imposed upon an employee for drug violations.
- c. Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.
- d. Notifying the contracting or granting agency within ten (10) days after receiving notice under part (B) of paragraph (3) of subsection (a) above from an employee or otherwise receiving actual notice of such conviction.
- e. Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program by,
- f. Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.
- g. Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act.

10. The ENGINEER or subconsultant shall not discriminate on the basis of race, color, national origin or sex in the performance of this AGREEMENT. The ENGINEER shall carry out applicable requirements of 49 CFR part 26 in the administration of DOT assisted contracts. Failure by the ENGINEER to carry out these requirements is a material breach of this AGREEMENT, which may result in the termination of this AGREEMENT or such other remedy as the LA deems appropriate.

Agreement Summary

Prime Consultant:	TIN Number	Agreement Amount
Strand Associates, Inc.		\$266,302.23
Sub-Consultants:	TIN Number	Agreement Amount
N/A		\$0.00
Sub-Consultant Total:		N/A
Prime Consultant Total:		\$266,302.23
Total for all Work Services:		\$266,302.23

Executed by the LA:

Lake County

(Municipality/Township/County)

ATTEST:

By:

Willard R. Lander

Lake County

Clerk

(SEAL)

By:

Steve Helmutt

Title:

Recommended for Execution by:

Mark A. Buehler

Director of Transportation/County Engineer-Lake County

Executed by the ENGINEER:

ATTEST:

By:

Matthew S. Ruhl

Title: Corporate Secretary

By:

Steve Buehler

Title: President

PAYROLL ESCALATION TABLE FIXED RAISES

FIRM NAME
PRIME/SUPPLEMENT

Strand Associates, Inc.
Prime

DATE 02/21/08
PSB NO.

15 MONTHS
5/1/2008
7/1/2008

CONTRACT TERM
START DATE
RAISE DATE

OVERHEAD RATE
COMPLEXITY FACTOR
% OF RAISE
176.21%
0
5.00%

ESCALATION PER YEAR

5/1/2008 - 7/1/2008

2

15

= 13.33%
= 1.0468

7/2/2008 - 7/1/2009

12

15

84.00%

7/2/2009 - 8/1/2009

1

15

7.35%

The total escalation for this project would be:

4.68%

AVERAGE HOURLY RATE RANGES BY EMPLOYEE CLASSIFICATION

Route: FAU 2661 / Hunt Club Road: Millburn Road to Wadsworth Road

Section No.: 02-00076-13-CH

Project No. CMM-8003 (472)

Job No.: D-91-114-05

Type of Funding: STA

Existing Structure No.: N/A

Classification	Hourly Rate Range			
PRINCIPAL	Ranges From	\$44.54	to	\$101.83
PROJECT MANAGER	Ranges From	\$29.54	to	\$53.34
STRUCTURAL ENGINEER	Ranges From	\$24.52	to	\$41.25
PROJECT ENGINEER	Ranges From	\$20.77	to	\$41.83
TECHNICIAN	Ranges From	\$14.00	to	\$38.35
CLERICAL	Ranges From	\$12.00	to	\$28.30

PAYROLL RATES

FIRM NAME
PRIME/SUPPLEMENT
PSB NO.

Strand Associates, Inc.
Prime

DATE 02/21/08

ESCALATION FACTOR

4.68%

CLASSIFICATION	CURRENT RATE	PROPOSED RATE	CALCULATED RATE	DIFF
PRINCIPAL	\$57.87		\$60.58	\$60.58
PROJECT MANAGER	\$40.94		\$42.86	\$42.86
PROJECT ENGINEER	\$25.34		\$26.53	\$26.53
TECHNICIAN	\$23.23		\$24.32	\$24.32
CLERICAL	\$18.14		\$18.99	\$18.99

COST PLUS FIXED FEE COST ESTIMATE OF CONSULTANT SERVICES

DF-824-039
REV 12/04

FIRM
PSB

PRIME/SUPPLEMENT

Strand Associates, Inc.

Prime

DATE

**OVERHEAD RATE
COMPLEXITY FACTOR**

1.7621
0

DBE DROP BOX	ITEM	MANHOURS (A)	PAYROLL (B)	OVERHEAD & FRINGE BENF (C)	IN-HOUSE DIRECT COSTS (D)	FIXED FEE (E)	Outside Direct Costs (F)	SERVICES BY OTHERS (G)	DBE TOTAL (H)	TOTAL (B-G)
	Administration	104	3,812.02	6,717.17	144.00	1,410.45	500.00			12,583.64
	Meetings	71	2,443.66	4,305.98	314.92	904.16	416.40			8,385.12
	Data Collection	16	586.10	1,032.77	32.00	216.86	217.10			2,084.83
	Pick-Up Topographic Survey	71	1,848.46	3,257.17	61.84	683.93	258.50			6,109.89
	Permitting & Agency Coordination	184	5,876.44	10,354.88	310.40	2,174.28	100.00			18,816.00
	Utility Coordination	68	1,791.09	3,156.08	319.28	662.70	219.50			6,148.65
	Drainage Design	98	2,708.18	4,772.08	460.92	1,002.03	67.90			9,011.11
	Street Lighting Design	180	5,057.25	8,911.38	884.58	1,871.18	0.00			16,724.40
	ROW & Easement Acquisition	2	121.16	213.50	5.34	44.83	0.00			384.83
	Pavement Design	24	767.29	1,352.04	12.00	283.90	0.00			2,415.22
	Preliminary Plans	1256	33,839.37	59,628.35	11,664.20	12,520.57	75.00			117,727.49
	Special Provisions	70	2,191.29	3,861.28	84.00	810.78	0.00			6,947.35
	Prefinal Plans	246	6,874.29	12,113.19	3,371.40	2,543.49	100.00			25,002.37
	Final Plans	192	5,494.86	9,682.49	1,623.40	2,033.10	100.00			18,933.85
	Bidding & Letting Coordination	20	661.18	1,165.07	24.00	244.64	20.00			2,114.88
	QA/QC	112	4,016.16	7,076.87	333.60	1,485.98	0.00			12,912.60
	Subconsultant DL					0.00				
	TOTALS	2714	78,088.80	137,600.28	19,645.88	28,892.86	2,074.40	0.00	0.00	266,302.23

DBE

DBE

PREPARED BY THE AGREEMENTS UNIT

Printed 2/21/2008 4:00 PM

AVERAGE HOURLY PROJECT RATES

IRM
SB
TIME/SUPPLEMENT Prime

Strand Associates, Inc.

DATE 02/21/08

SHEET 1 OF 3

PAYROLL	AVG HOURLY RATES	TOTAL PROJECT RATES			Administration			Meetings			Data Collection			Pick-Up Topographic Sur			Permitting & Agency Coord		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
CLASSIFICATION																			
PRINCIPAL	60.58	20	0.74%	0.45	4	3.85%	2.33	0			2	12.50%	7.57	0			0		
PROJECT MANAGE	42.86	467	17.21%	7.37	70	67.31%	28.85	38	53.52%	22.94	6	37.50%	16.07	3	4.23%	1.81	64	34.78%	14.91
PROJECT ENGINEER	26.53	1375	50.66%	13.44	0			25	35.21%	9.34	6	37.50%	9.95	30	42.25%	11.21	112	60.87%	16.15
TECHNICIAN	24.32	790	29.11%	7.08	0			0			2	12.50%	3.04	38	53.52%	13.02	2	1.09%	0.26
ADMINISTRATIVE	18.99	62	2.28%	0.43	30	28.85%	5.48	8	11.27%	2.14	0			0			6	3.26%	0.62
TOTALS		2714	100%	\$28.77	104	100.00%	\$36.65	71	100%	\$34.42	16	100%	\$36.63	71	100%	\$26.03	184	100%	\$31.94

AVERAGE HOURLY PROJECT RATES

IRM
SB
Strand Associates, Inc.

TIME/SUPPLEMENT Prime

DATE 02/21/08

SHEET 2 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Utility Coordination			Drainage Design			Street Lighting Design			ROW & Easement Acquisition			Pavement Design			Preliminary Plans		
		Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg
PRINCIPAL	60.58	0			0			0			2	100.00%	60.58	0			4	0.32%	0.19
PROJECT MANAGER	42.86	6	8.82%	3.78	8	8.16%	3.50	20	11.11%	4.76	0			8	33.33%	14.29	98	7.80%	3.34
PROJECT ENGINEER	26.53	36	52.94%	14.04	80	81.63%	21.65	140	77.78%	20.63	0			16	66.67%	17.68	604	48.09%	12.76
TECHNICIAN	24.32	16	23.53%	5.72	10	10.20%	2.48	20	11.11%	2.70	0			0			550	43.79%	10.65
PERICAL	18.99	10	14.71%	2.79	0			0			0			0			0		
TOTALS		68	100%	\$26.34	98	100%	\$27.63	180	100%	\$28.10	2	100%	\$60.58	24	100%	\$31.97	1256	100%	\$26.94

AVERAGE HOURLY PROJECT RATES

RM Strand Associates, Inc.

SB

TIME/SUPPLEMENT Prime

DATE

02/21/08

SHEET

3 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Special Provisions			Preliminary Plans			Final Plans			Bidding & Letting Coordination			QA/QC		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
PRINCIPAL	60.58	2	2.86%	1.73	3	1.22%	0.74	3	1.56%	0.95	0			0		
PROJECT MANAGER	42.86	20	28.57%	12.24	27	10.98%	4.70	27	14.06%	6.03	8	40.00%	17.14	64	57.14%	24.49
PROJECT ENGINEER	26.53	40	57.14%	15.16	128	52.03%	13.80	98	51.04%	13.54	12	60.00%	15.92	48	42.86%	11.37
TECHNICIAN	24.32	0			88	35.77%	8.70	64	33.33%	8.11	0			0		
PERICAL	18.99	8	11.43%	2.17	0			0			0			0		
TOTALS		70	100%	\$31.30	246	100%	\$27.94	192	100%	\$28.62	20	100%	\$33.06	112	100%	\$35.86
														0	0%	\$0.00

EXHIBIT A - MANHOURS

Route: FAU 2661 / Hunt Club Road: Millburn Road to Wadsworth Road
 Section No.: 02-00076-13-CH
 Project No. CMM-8003 (472)
 Job No.: D-91-114-05
 Type of Funding: STA
 Existing Structure No.: N/A

	NOTES	P	PM	PE	TECH	SEC	PROJECT
I. ADMINISTRATION							
PROJECT MANAGEMENT	Misc.	4	40				44
INVOICE PREPARATION	11 invoices @ 4 hr/ea		22			22	44
PROGRESS REPORTS	8 monthly reports @ 2 hr/ea		8			8	16
SUBTOTAL		4	70			30	104
II. MEETINGS							
KICK-OFF MEETING WITH IDOT	1 meeting X 2 persons X @ 4 hrs/ea		4	5		1	10
PLAN REVIEW W/IDOT	2 meeting X 2 persons @ 4 hrs/ea		8	10		2	20
PLAN REVIEW W/LAKE COUNTY	2 meeting X 1 person @ 5 hrs/ea		12			2	14
PRE-APPLICATION MEETING W/SMC	1 meeting X 1 person @ 5 hrs/ea		6			1	7
ROW SUBCONSULTANT	2 meeting X 2 persons @ 4 hrs/ea		8	10		2	20
SUBTOTAL			38	25		8	71
III. DATA COLLECTION							
		2	6	6	2		16
SUBTOTAL		2	6	6	2		16
IV. PICK-UP TOPOGRAPHIC SURVEY							
PICK-UP SURVEY	3 days @ 10 hrs/day for 2 persons		3	30	30		63
DOWNLOAD SURVEY					8		8
SUBTOTAL			3	30	38		71
V. PERMITTING & AGENCY COORDINATION							
IDOT			40	44			84
LAKE COUNTY - TRANSPORTATION & SMC			16	20			36
ACOE REGIONAL PERMIT	Includes field meeting, response to ACOE, and mitigation of wetlands.		2	12	1	1	16
LCSMC WETLANDS PERMIT	Mitigation coordination and application.		2	12	1	1	16
IEPA SWPPP & NPDES PERMIT			4	24		4	32
SUBTOTAL			64	112	2	6	184
VI. UTILITY COORDINATION							
PREPARE AND SUBMIT PLANS	Submit Pre-final and Final plans. Assume 6 utility companies w/coordination 8hrs/ea.		4	20	16	8	48
COMED COORDINATION			2	16		2	20
SUBTOTAL			6	36	16	10	68
VII. DRAINAGE DESIGN							
STORM SEWER DESIGN			4	50	6		60
DITCH GRADING DESIGN			4	30	4		38
SUBTOTAL			8	80	10		98

EXHIBIT A - MANHOURS

Route: FAU 2661 / Hunt Club Road: Millburn Road to Wadsworth Road
Section No.: 02-00076-13-CH
Project No. CMM-8003 (472)
Job No.: D-91-114-05
Type of Funding: STA
Existing Structure No.: N/A

	NOTES	P	PM	PE	TECH	SEC	PROJECT
VIII. STREET LIGHTING DESIGN	Design at the intersections and transition lighting on the intersection legs.		20	140	20		180
SUBTOTAL			20	140	20		180
IX. ROW & EASEMENT ACQUISITION							
FINAL DOCUMENT CLOSURE		2					2
SUBTOTAL		2					2
X. PAVEMENT DESIGN							
DESIGN			8	16			24
SUBTOTAL			8	16			24
XI. PRELIMINARY PLANS							
TITLE SHEET	1 sheet			2	6		8
GENERAL NOTES	1 sheet		2	4	2		8
SUMMARY OF QUANTITIES	1 sheet			2	6		8
TYPICAL SECTIONS	9 typical roadway sections on 5 sheets 8 hrs/sheet		4	18	18		40
SCHEDULE OF QUANTITIES	4 sheet @ 8 hrs/sheet		4	20	8		32
ALIGNMENT, TIES AND BENCHMARKS	1 sheet		1	4	4		9
ROADWAY PLAN & PROFILE SHEETS (SCALE 1" = 20')	12 plan and profile sheets @ 12 hrs/sheet		12	74	64		150
MAINTENANCE OF TRAFFIC & DETOUR SHEETS	12 sheets @ 12 hrs/sheet		8	80	56		144
LANDSCAPING & PERMANENT EROSION AND SEDIMENT CONTROL SHEETS	12 plan sheets @ 6 hrs/sheet		2	36	32		70
TEMPORARY EROSION AND SEDIMENT CONTROL SHEETS	12 plan sheets @ 6 hrs/sheet		2	36	32		70
DRAINAGE AND STREET LIGHTING SHEETS	12 plan and profile sheets @ 10 hrs/sheet		12	64	44		120
INTERSECTION SHEETS	1 sheet per roundabout @ 36 hrs/sheet		6	34	32		72
PERMANENT PAVEMENT MARKING AND SIGNING	12 plan sheets @ 6 hrs/sheet		6	32	34		72
CROSS SECTIONS (SCALE 1"=5' H&V, EVERY 50' AND AT ROUNDABOUTS)	200 x-sections @ 2.5 hrs/section	2	24	104	140		270
SPECIFIC DETAILS	2 sheets @ 8 hrs/sheet		2	6	8		16
STANDARD DETAILS	10 sheets @ 4 hrs/sheet		2	16	24		42
OPINION OF PROBABLE CONSTRUCTION COST		1	3	12	8		24
QUANTITIES		1	8	60	32		101
SUBTOTAL		4	98	604	550		1256
XII. SPECIAL PROVISIONS		2	20	40		8	70
SUBTOTAL		2	20	40		8	70
XIII. PREFINAL PLANS							
PREFINAL PLAN PREPARATION		1	16	80	60		157
OPINION OF PROBABLE CONSTRUCTION COST		1	3	8	4		16
QUANTITIES		1	8	40	24		73

EXHIBIT A - MANHOURS

Route: FAU 2661 / Hunt Club Road: Millburn Road to Wadsworth Road
Section No.: 02-00076-13-CH
Project No. CMM-8003 (472)
Job No.: D-91-114-05
Type of Funding: STA
Existing Structure No.: N/A

	NOTES	P	PM	PE	TECH	SEC	PROJECT
SUBTOTAL		3	27	128	88		246
XIV. FINAL PLANS							
FINAL PLAN PREPARATION		2	12	70	60		144
ESTIMATE OF TIME			12	20			32
OPINION OF PROBABLE CONSTRUCTION COST		1	3	8	4		16
SUBTOTAL		3	27	98	64		192
XV. BIDDING & LETTING COORDINATION							
ASSIST IDOT W/PREPARATION			8	12			20
SUBTOTAL			8	12			20
XVI. QA/QC							
ROADWAY QA/QC			32	24			56
DRAINAGE QA/QC			16	12			28
STREET LIGHTING QA/QC			16	12			28
SUBTOTAL			64	48			112
*****MAN-HOUR TOTALS		20	467	1375	790	62	2714

EXHIBIT A - EXPENSES

Route: FAU 2661 / Hunt Club Road: Millburn Road to Wadsworth Road
 Section No.: 02-00076-13-CH
 Project No. CMM-8003 (472)
 Job No.: D-91-114-05
 Type of Funding: STA
 Existing Structure No.: N/A

XEROX

Description	# of Copies	Rate	Total In House	Total Out House	Comments
I. ADMINISTRATION					
II. MEETINGS					
III. DATA COLLECTION					
IV. PICK-UP TOPOGRAPHIC SURVEY					
V. PERMITTING & AGENCY COORDINATION					
VI. UTILITY COORDINATION					
VII. DRAINAGE DESIGN					
VIII. STREET LIGHTING DESIGN					
IX. ROW & EASEMENT ACQUISITION					
X. PAVEMENT DESIGN					
XI. PRELIMINARY PLANS					
XII. SPECIAL PROVISIONS					
XIII. PRELIMINARY PLANS					
XIV. FINAL PLANS					
XV. BIDDING & LETTING COORDINATION					
XVI. QA/QC					
SUBTOTAL	4320		\$518.40		

CADD

Description	# of Hours	Rate	Total In House	Total Out House	Comments
I. ADMINISTRATION					
II. MEETINGS					
III. DATA COLLECTION					
IV. PICK-UP TOPOGRAPHIC SURVEY					
V. PERMITTING & AGENCY COORDINATION					
VI. UTILITY COORDINATION					
VII. DRAINAGE DESIGN					
VIII. STREET LIGHTING DESIGN					
IX. ROW & EASEMENT ACQUISITION					
X. PAVEMENT DESIGN					
XI. PRELIMINARY PLANS					
XII. SPECIAL PROVISIONS					
XIII. PRELIMINARY PLANS					
XIV. FINAL PLANS					
XV. BIDDING & LETTING COORDINATION					
XVI. QA/QC					
SUBTOTAL	1222		\$17,108.00		

EXHIBIT A - EXPENSES

Route: FAU 2661 / Hunt Club Road: Millburn Road to Wadsworth Road
 Section No.: 02-00076-13-CH
 Project No. CMM-8003 (472)
 Job No.: D-91-114-05
 Type of Funding: STA

POSTAGE	Description	# of Hours	Rate	Total In House	Total Out House	Comments
I. ADMINISTRATION	Mailing of invoices and reports.				\$500.00	
II. MEETINGS					\$24.00	
III. DATA COLLECTION	Mailing of Phase 1 report.				\$50.00	
IV. PICK-UP TOPOGRAPHIC SURVEY						
V. PERMITTING & AGENCY COORDINATION	Mailing of various information to agencies.				\$100.00	
VI. UTILITY COORDINATION	Mailing of letters and plans to utility companies for their review.				\$150.00	
VII. DRAINAGE DESIGN						
VIII. STREET LIGHTING DESIGN						
IX. ROW & EASEMENT ACQUISITION						
X. PAVEMENT DESIGN						
XI. PRELIMINARY PLANS						
XII. SPECIAL PROVISIONS	Mailing of preliminary plans to Old Mill Creek and Lake County.				\$75.00	
XIII. PREFINAL PLANS						
XIV. FINAL PLANS	Mailing of prefinal plans to Old Mill Creek, IDOT, and Lake County.				\$100.00	
XV. BIDDING & LETTING COORDINATION	Mailing of final plans to Old Mill Creek, IDOT, and Lake County.				\$100.00	
XVI. QA/QC	Mailing of documents.				\$20.00	
SUBTOTAL					\$1,119.00	
FILM AND PROCESSING						
I. ADMINISTRATION						
II. MEETINGS						
III. DATA COLLECTION						
IV. PICK-UP TOPOGRAPHIC SURVEY						
V. PERMITTING & AGENCY COORDINATION	On-site pictures.				\$50.00	
VI. UTILITY COORDINATION						
VII. DRAINAGE DESIGN						
VIII. STREET LIGHTING DESIGN						
IX. ROW & EASEMENT ACQUISITION						
X. PAVEMENT DESIGN						
XI. PRELIMINARY PLANS						
XII. SPECIAL PROVISIONS						
XIII. PREFINAL PLANS						
XIV. FINAL PLANS						
XV. BIDDING & LETTING COORDINATION						
XVI. QA/QC						
SUBTOTAL					\$50.00	

EXHIBIT A - EXPENSES

Route: FAU 2661 / Hunt Club Road: Millburn Road to Wadsworth Road
 Section No.: 02-00076-13-CH
 Project No. CMM-8003 (472)
 Job No.: D-81-114-05
 Type of Funding: STA

XEROX 2 (Color Copiers)					
	Description	# of Copies	Rate	Total In House	Total Out House Comments
I. ADMINISTRATION					
II. MEETINGS					
III. DATA COLLECTION	misc.	20	\$1.00	\$20.00	
IV. PICK-UP TOPOGRAPHIC SURVEY					
V. PERMITTING & AGENCY COORDINATION	misc. figures and permit applications	70	\$1.00	\$70.00	
VI. UTILITY COORDINATION					
VII. DRAINAGE DESIGN					
VIII. STREET LIGHTING DESIGN					
IX. ROW & EASEMENT ACQUISITION					
X. PAVEMENT DESIGN					
XI. PRELIMINARY PLANS					
XII. SPECIAL PROVISIONS					
XIII. PREFINAL PLANS					
XIV. FINAL PLANS					
XV. BIDDING & LETTING COORDINATION					
XVI. QA/QC					
SUBTOTAL		90		\$90.00	

MILEAGE					
	Description V=vehicle, T=trips, M=miles (one-way)	Miles	Rate	Total In House	Total Out House Comments
I. ADMINISTRATION					
II. MEETINGS	1V X 6T X 50M, 1V X 6T X 70M	720	\$0.485		
III. DATA COLLECTION	1V X 6T X 50M	300	\$0.485		
IV. PICK-UP TOPOGRAPHIC SURVEY	1V X 6T X 70M	420	\$0.485		
V. PERMITTING & AGENCY COORDINATION					
VI. UTILITY COORDINATION	1V X 2T X 70M	140	\$0.485		
VII. DRAINAGE DESIGN	1V X 2T X 70M	140	\$0.485		
VIII. STREET LIGHTING DESIGN					
IX. ROW & EASEMENT ACQUISITION					
X. PAVEMENT DESIGN					
XI. PRELIMINARY PLANS					
XII. SPECIAL PROVISIONS					
XIII. PREFINAL PLANS					
XIV. FINAL PLANS					
XV. BIDDING & LETTING COORDINATION					
XVI. QA/QC					
SUBTOTAL		1720			\$834.20

EXHIBIT A - EXPENSES

Route: FAU 2661 / Hunt Club Road: Millburn Road to Wadsworth Road
 Section No.: 02-00076-13-CH
 Project No.: CMM-8003 (472)
 Job No.: D-91-114-05
 Type of Funding: STA

TOLLS	Description V=vehicle, T=trips (one-way), P=plazas	# of Tolls	Rate	Total In House	Total Out House	Comments
I. ADMINISTRATION						
II. MEETINGS						
III. DATA COLLECTION	1V X 12T X 2P	24	\$1.80		\$43.20	
	IDOT - 1V X 6T X 2P	12	\$1.80		\$21.60	
IV. PICK-UP TOPOGRAPHIC SURVEY						
V. PERMITTING & AGENCY COORDINATION	LC and Old Mill Creek - 1V X 6T X 2P	6	\$0.80		\$4.80	
VI. UTILITY COORDINATION						
VII. DRAINAGE DESIGN	1V X 2T X 1P	2	\$0.80		\$1.60	
VIII. STREET LIGHTING DESIGN						
IX. ROW & EASEMENT ACQUISITION						
X. PAVEMENT DESIGN						
XI. PRELIMINARY PLANS						
XII. SPECIAL PROVISIONS						
XIII. PRELIMINARY PLANS						
XIV. FINAL PLANS						
XV. BIDDING & LETTING COORDINATION						
XVI. QA/QC						
SUBTOTAL		44			\$71.20	I-355 toll plazas - Boughton Rd. & Army trail = \$1.00 ea Cermak Rd. plaza 79 = \$0.80
PRINTS/COPIES	Description	Total Area (sq ft)	Rate	Total In House	Total Out House	Comments
I. ADMINISTRATION						
II. MEETINGS						
III. DATA COLLECTION						
IV. PICK-UP TOPOGRAPHIC SURVEY	10 full size prints (22" X 34")	52	\$0.21	\$10.92		Phase 1 plan set has 68 pages including cross sections.
V. PERMITTING & AGENCY COORDINATION	20 full size prints (22" X 34")	104	\$0.21	\$21.84		Need plan sheets.
VI. UTILITY COORDINATION	600 half size prints (11.5" X 17")	840	\$0.21	\$176.40		Assume 2 submittals each of 150 sheet plan set for Lake County and ACOE.
VII. DRAINAGE DESIGN	120 half size prints (11.5" X 17")	168	\$0.21	\$35.28		Assume 6 utility companies receive plan sets of details and plan sheets.
VIII. STREET LIGHTING DESIGN	10 full size prints (22" X 34")	52	\$0.21	\$10.92		
IX. ROW & EASEMENT ACQUISITION	70 half size prints (11.5" X 17")	98	\$0.21	\$20.58		
X. PAVEMENT DESIGN	10 half size prints (11.5" X 17")	14	\$0.21	\$2.94		
XI. PRELIMINARY PLANS	1 full size plan sets (22" X 34")	4				
XII. SPECIAL PROVISIONS	half size plan sets (11.5" X 17")	1,620	\$0.21	\$340.20		Assume 150 sheets per plan set.
XIII. PRELIMINARY PLANS	3 full size plan sets (22" X 34")	5				
XIV. FINAL PLANS	half size plan sets (11.5" X 17")	2,340	\$0.21	\$491.40		Assume 150 sheets per plan set.
XV. BIDDING & LETTING COORDINATION	3 full size plan sets (22" X 34")	5				
XVI. QA/QC	half size plan sets (11.5" X 17")	2,340	\$0.21	\$491.40		Assume 150 sheets per plan set.
	300 full size prints (22" X 34")	1,560	\$0.21	\$327.60		Assume 150 sheets per plan set.
SUBTOTAL		9,188		\$1,929.48		

EXHIBIT A - EXPENSES

Route: FAU 2661 / Hunt Club Road: Millburn Road to Wadsworth Road
 Section No.: 02-00076-13-CH
 Project No. CMM-8003 (472)
 Job No.: D-91-114-05
 Type of Funding: STA

SUMMARY	Description	# of Copies	Rate	Total In House	Total Out House	Comments
I. ADMINISTRATION					\$500.00	
II. MEETINGS				\$144.00	\$416.40	
III. DATA COLLECTION				\$314.92	\$217.10	
IV. PICK-UP TOPOGRAPHIC SURVEY				\$32.00	\$258.50	
V. PERMITTING & AGENCY COORDINATION				\$61.84	\$100.00	
VI. UTILITY COORDINATION				\$310.40	\$219.50	
VII. DRAINAGE DESIGN				\$319.28	\$67.90	
VIII. STREET LIGHTING DESIGN				\$460.92	\$0.00	
IX. ROW & EASEMENT ACQUISITION				\$884.58	\$0.00	
X. PAVEMENT DESIGN				\$5.34	\$0.00	
XI. PRELIMINARY PLANS				\$12.00	\$0.00	
XII. SPECIAL PROVISIONS				\$11,664.20	\$75.00	
XIII. PRELIM PLANS				\$84.00	\$0.00	
XIV. FINAL PLANS				\$3,371.40	\$100.00	
XV. BIDDING & LETTING COORDINATION				\$1,623.40	\$100.00	
XVI. QA/QC				\$24.00	\$20.00	
				\$333.60	\$0.00	
SUBTOTAL				\$19,645.88	\$2,074.40	

EXHIBIT B
SCOPE CLARIFICATIONS – PHASE II ENGINEERING SERVICES

CONSULTANT: STRAND ASSOCIATES, INC.
ROUTE: FAU 2661 / HUNT CLUB ROAD MILLBURN ROAD TO
WADSWORTH ROAD
SECTION NO: 02-00076-13-CH
PROJECT NO: CMM-8003 (472)
JOB NO: D-91-114-05
TYPE OF FUNDS: STA
EX. STR. NO.: N/A
LA CONTACT: Mr. Richard McMorris, P.E.

Note: Though a dual lane roundabout was designed as the ultimate build out at the intersection of Hunt Club Road with Millburn Road during Phase I, a single lane roundabout will be constructed.

1. Administration

- a. Administration hours shall be used to track each project schedule, budget, and task completion by the project managers.
- b. IDOT invoices will be completed.
- c. Monthly Progress Reports shall be submitted.

2. Meetings

- a. Attend a project kick-off meeting with IDOT at their office in Schaumburg.
- b. Attend 2 project meetings with IDOT at their office in Schaumburg.
- c. Attend 2 project meetings with Lake County Division of Transportation at their office in Lake County.
- d. Attend pre-application meeting with Lake County Stormwater Management Commission at their office in Lake County.
- e. The ENGINEER shall prepare and distribute meeting minutes for these meetings.

3. Pick-up Topographic Survey

- a. The project survey was completed during Phase I.
- b. Perform a 3 day pick-up topographical with a two-man crew for additional information necessary for final design.

4. Permitting & Agency Coordination

- a. Coordinate with USACOE for the Regional USAGE wetland permit application.
- b. Coordinate with Lake County Stormwater Management Commission (LCSMC) for applicable permits.
- c. Coordinate with IDOT to address permitting requirements and needs.
- d. Preparation of IEPA Storm Water Pollution Prevention Plan (SWPPP).

5. Utility Coordination

- a. Coordinate with utility companies along Project corridor regarding impacts to existing utilities.
- b. Coordinate with Commonwealth Edison to provide new electrical service for the proposed street lighting.

6. Drainage Design

- a. Design a drainage conveyance system including storm sewer and ditch grading per IDOT criteria.
- b. It is assumed storm water detention is not required.
- c. Storm sewer shall be located according to the Phase I study.

7. Street Lighting Design

- a. Roadway street lighting will be designed at each of the two roundabout locations per the latest IDOT standards and the AASHTO publication, Guidelines for Highway Lighting.

8. ROW & Easement Acquisition

- a. Final documentation verification.

9. Pavement Design

- a. Perform permanent pavement design according to IDOT requirements.

10. Preliminary Plans - for LCDOT Review

- a. Plans will be developed in accordance with the submitted PDR at 1 inch = 20 feet plan, 1 inch = 5 feet vertical profile, 1 inch = 5 feet horizontal cross section, and 1 inch = 5 feet vertical cross section.
- b. Drainage modifications and roadway lighting will be shown on Utility plan sheets.
- c. Landscaping and permanent erosion and sediment control will be shown on the same plan sheets
- d. Temporary erosion control will be shown on separate plan sheets.
- e. Permanent pavement marking will be shown on separate plan sheets.
- f. Existing known utility conflicts will be identified on Roadway plan sheets.
- g. Cross sections will be cut at 50 feet intervals along the project corridor.
- h. Prepare opinion of probable construction cost
- i. Submit one copy of full size and three copies of half size preliminary plans for review and comment to LCDOT. One copy of half-size to Old Mill Creek.

11. Special Provisions

- a. Prepare four copies of special provisions and contract documents during each of three reviews; preliminary, pre-final, and final plans.

- b. IDOT special provisions will be provided

12. Prefinal Plans – for IDOT Review

- a. Revisions due to Preliminary plan review comments
- b. Revise opinion of probable construction cost
- c. Submit one copy of full size and three copies of half size preliminary plans and special provisions for review and comment to LCDOT and one copy of full size and one copy of half size preliminary plans and special provisions to IDOT. One copy of half size to Old Mill Creek.

13. Final Plans

- a. Revisions due to Pre-Final plan review comments
- b. Revise opinion of probable construction cost and estimate of construction time using the appropriate BLR forms.
- c. Submit one copy of full size with mylar sheets for cover sheet and plan and profile sheets and two copies of half size preliminary plans accompanied by one set of special provisions for review and comment to LCDOT. Submit one copy of full size and one copy of half size to IDOT and Old Mill Creek.
- d. Submit electronic copy of base design sheets in Microstation format along with individual plan set sheets in Microstation and Adobe Acrobat format.
- e. Submit special provisions in Microsoft Word and Adobe Acrobat format.

14. Bidding & Letting Coordination

- a. Assist IDOT with preparation of letting.

15. QA/QC

- a. A QA/QC review will be performed prior to submittal of the Preliminary plans, Prefinal plans, and Final plans.

EXHIBIT C - PROJECT SCHEDULE

Route: FAU 2661 / Hunt Club Road: Millburn Road to Wadsworth Road
Section No.: 02-00076-13-CH
Project No. CMM-8003 (472)
Job No.: D-91-114-05
Type of Funding: STA
Existing Structure No.: N/A

2008													2009 - 2010	
TASK	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JULY 09	OR	ROW	ACQUISITION		
I. ADMINISTRATION														
PROJECT MANAGEMENT														
INVOICE PREPARATION														
PROGRESS REPORTS														
II. MEETINGS														
KICK-OFF MEETING WITH IDOT														
PLAN REVIEW W/IDOT														
PLAN REVIEW W/LAKE COUNTY														
PRE-APPLICATION MEETING W/LCSMC														
III. DATA COLLECTION														
IV. PICK-UP TOPOGRAPHIC SURVEY														
PICK-UP SURVEY														
DOWNLOAD SURVEY														
V. PERMITTING & AGENCY COORDINATION														
IDOT														
LAKE COUNTY - TRANSPORTATION & SMC														
ACOE REGIONAL PERMIT														
LCSMC WETLANDS PERMIT														
EPA SWPPP & NPDES PERMIT														
VI. UTILITY COORDINATION														
PREPARE AND SUBMIT PLANS														
COMED COORDINATION														
VII. DRAINAGE DESIGN														
STORM SEWER DESIGN														
DITCH GRADING DESIGN														
VIII. STREET LIGHTING DESIGN														
IX. ROW & EASEMENT ACQUISITION														
SUB-CONSULTANT COORDINATION & PLANS														
X. PAVEMENT DESIGN														
XI. PRELIMINARY PLANS														
TITLE SHEET														
GENERAL NOTES														
SUMMARY OF QUANTITIES														
TYPICAL SECTIONS														
SCHEDULE OF QUANTITIES														
ALIGNMENT, TIES AND BENCHMARKS														
ROADWAY PLAN & PROFILE SHEETS														
MAINTENANCE OF TRAFFIC & EMERGENCY ACCESS SHEETS														
DETOUR PLANS														
LANDSCAPING & PERMANENT EROSION AND SEDIMENT CONTROL SHEETS														
TEMPORARY EROSION AND SEDIMENT CONTROL SHEETS														
DRAINAGE AND STREET LIGHTING SHEETS														
INTERSECTION SHEETS														
PERMANENT PAVEMENT MARKING AND SIGNING														
CROSS SECTIONS														
SPECIFIC DETAILS														
STANDARD DETAILS														
OPINION OF PROBABLE CONSTRUCTION COST														
XII. SPECIAL PROVISIONS														
XIII. PREFINAL PLANS														
PREFINAL PLAN PREPARATION														
OPINION OF PROBABLE CONSTRUCTION COST														
QUANTITIES														
XIV. FINAL PLANS														
FINAL PLAN PREPARATION														
ESTIMATE OF TIME														
OPINION OF PROBABLE CONSTRUCTION COST														
XV. BIDDING & LETTING COORDINATION														
ASSIST IDOT W/PREPARATION														
XVI. QA/QC														
ROADWAY QA/QC														
DRAINAGE QA/QC														
STREET LIGHTING QA/QC														
XVII. IDOT & LCDOT REVIEW														
IDOT														
LCDOT														

Assumptions

1. LCDOT & IDOT reviews will take 4 weeks.

Anticipated Project Milestones

May 1, 2008	Authority to proceed.
August 15, 2008	Submit Preliminary Plans to LCDOT.
October 1, 2008	Submit PreFinal Plans to IDOT and LCDOT.
December 1, 2008	Submit Final Plans to IDOT and LCDOT.
July 2009 or ROW Acquisition	Bidding & Letting